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1 Mobile agents in distributed network management
Timon C. Du, Eldon Y. Li, An-Pin Chang
July 2003 **Communications of the ACM**, Volume 46 Issue 7
Full text available: pdf(145.79 KB) html(30.77 KB) Additional Information: full citation, abstract, references, index terms

By helping to disperse centralized network management tasks to subnet hosts, mobile agent technology helps conserve network bandwidth and improves management efficiency by decreasing network traffic.

2 An experimental object-based sharing system for networked databases
Doug Fang, Shahram Ghandeharizadeh, Dennis McLeod
April 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 2
Full text available: pdf(195.97 KB) Additional Information: full citation, abstract, index terms

An approach and mechanism for the transparent sharing of objects in an environment of interconnected (networked), autonomous database systems is presented. An experimental prototype system has been designed and implemented, and an analysis of its performance conducted. Previous approaches to sharing in this environment typically rely on the use of a global, integrated conceptual database schema; users and applications must pose queries at this new level of abstraction to access remote informatio ...

Keywords: Database system interoperability, Experimental prototype benchmarking, Object sharing

3 A hierarchical description of the Hermix distributed operating system
Yolande Berbers, Pierre Verbaeten
January 1988 **Proceedings of the 1988 ACM SIGSMALL/PC symposium on ACTES**
Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings, index terms

Distributed operating systems are often structured in a server oriented way, where some system tasks are performed by server processes. For modularity reasons, Hermix is build of a minimal kernel and many small servers; however to get a reasonable performance we use tools to merge servers together or to integrate them in our kernel. In this paper we analyze the most basic services needed in server oriented systems. We give a description of these

basic services and place them in a ...

4 Transaction management issues in a failure-prone multidatabase system environment
Yuri Breitbart, Avi Silberschatz, Glenn R. Thompson
July 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 1
Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, citings

This paper is concerned with the problem of integrating a number of existing, off-the-shelf local database systems into a multidatabase system that maintains consistency in the face of concurrency and failures. The major difficulties in designing such systems stem from the requirements that local transactions be allowed to execute outside the multidatabase system control, and that the various local database systems cannot participate in the execution of a global commit protocol. A scheme based o ...

Keywords: algorithms, deadlock recovery, performance, reliability, serializibility, transaction log

5 Contact networking: a localized mobility system
Casey Carter, Robin Kravets, Jean Tourrilhes
May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services**
Full text available: pdf(232.79 KB) Additional Information: full citation, abstract, references

MobileIP, the standard for Internet mobility, enables transparent mobility for a mobile node, but requires communication to take a multihop path through the node's Home Agent. Although a user with a multiple-interface mobile node may desire the ability to communicate locally, perhaps while disconnected from the Internet, MobileIP offers no such support.Contact Networking provides lightweight, localized network communication to a node with diverse network interfaces. The goal is to provide suppor ...

6 Saving portable computer battery power through remote process execution
Alexey Rudenko, Peter Reiher, Gerald J. Popek, Geoffrey H. Kuenning
January 1998 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 2 Issue 1
Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings

We describe a new approach to power saving and battery life extension on an untethered laptop through wireless remote processing of power-costly tasks. We ran a series of experiments comparing the power consumption of processes run locally with that of the same processes run remotely. We examined the trade-off between communication power expenditures and the power cost of local processing. This paper describes our methodology and results of our experiments. We suggest ways to further improve thi ...

7 Enabling power management for network-attached computers
Kenneth J. Christensen, Franklin 'Bo' Gulledge
March 1998 **International Journal of Network Management**, Volume 8 Issue 2
Full text available: pdf(134.70 KB) Additional Information: full citation, abstract, references, index terms

Power management is an emerging area of interest for network management. This article reviews current developments and describes methods for enabling power management in network-attached computers. © 1998 John Wiley & Sons, Ltd.

8 Cluster-based file replication in large-scale distributed systems
Harjinder S. Sandhu, Songnian Zhou
June 1992 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the**

1992 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems, Volume 20 Issue 1

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

The increasing need for data sharing in large-scale distributed systems may place a heavy burden on critical resources such as file servers and networks. Our examination of the workload in one large commercial engineering environment shows that wide-spread sharing of unstable files among tens to hundreds of users is common. Traditional client-based file cacheing techniques are not scalable in such environments. We propose Frolic, a scheme for cluster-based file replication in lar ...

9 Migration Issues and Strategies for Token Ring

Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love

July 1997 **International Journal of Network Management**, Volume 7 Issue 4

Full text available: pdf(472.60 KB) Additional Information: full citation, abstract, index terms

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard. © 1997 John Wiley & Sons, Ltd.

10 Efficient policies for carrying Web traffic over flow-switched networks

Anja Feldmann, Jennifer Rexford, Ramón Cáceres

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available: pdf(209.39 KB) Additional Information: full citation, references, citings, index terms

Keywords: HTTP protocol, IP flows, Internet traffic characterization, routing, signaling, switching

11 Reliable transaction management in a multidatabase system

Yuri Breitbart, Avi Silberschatz, Glenn R. Thompson

May 1990 **ACM SIGMOD Record , Proceedings of the 1990 ACM SIGMOD international conference on Management of data**, Volume 19 Issue 2

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

A model of a multidatabase system is defined in which each local DBMS uses the two-phase locking protocol Locks are released by a global transaction only after the transaction commits or aborts at each local site. Failures may occur during the processing of transactions. We design a fault tolerant transaction management algorithm and recovery procedures that retain global database consistency. We also show that our algorithms ensure freedom from global deadlocks of any kind.

12 Optimizing throughout in a workstation-based network file system over a high bandwidth local area network

Theodore Faber

January 1998 **ACM SIGOPS Operating Systems Review**, Volume 32 Issue 1

Full text available: pdf(858.90 KB) Additional Information: full citation, abstract, index terms

This paper describes methods of optimizing a client/server network file system to advantage of high bandwidth local area networks in a conventional distributed computing environment. The environment contains hardware that removes network and disk bandwidth bottlenecks. The remaining bottlenecks at clients include excessive context

switching, inefficient data translation, and cumbersome data encapsulation methods. When these are removed, the null-write performance of a current implementation of S ...

13 A model for the design of high performance protocols for a networked computing environment

Gary D. Law

January 1988 **Proceedings of the 1988 ACM SIGSMALL/PC symposium on ACTES**

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, index terms

The advent of high bandwidth local area networks means that it is now possible to interconnect large numbers of devices with widely differing processing capabilities in such a manner that the various devices may closely interact. Before such a system may be realised, it is necessary to define a set of conventions to govern the way in which the network nodes interact with each other. The Triadic Network Model is introduced to describe the interactions between personal computers an ...

14 Network management abroad

J. C. W. Hendriks, M. E. M. Spruit, M. Looijen

August 2002 **International Journal of Network Management**, Volume 12 Issue 5

Full text available: pdf(133.21 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a number of interim results of a survey that, on the basis of a case study, establishes links between conditions in various countries and steering the management of an international network. It shows that the impact of factors in other countries on the network can largely be controlled from within an organization.

15 Computation and communication in R*: a distributed database manager

Bruce G. Lindsay, Laura M. Haas, C. Mohan, Paul F. Wilms, Robert A. Yost

February 1984 **ACM Transactions on Computer Systems (TOCS)**, Volume 2 Issue 1

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

Keywords: distributed computation, distributed recovery protocols, site autonomy

16 GraphicsNet '95: integrated voice, video, graphics and data network using asynchronous transfer made (ATM)

Marke Clinger

February 1996 **ACM SIGGRAPH Computer Graphics**, Volume 30 Issue 1

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, index terms

Every year demonstrations at the SIGGRAPH conference push the envelope in state-of-the-art graphics. In 1995, SIGGRAPH also pushed the envelope in networking by deploying a conference-wide, production ATM network. GraphicsNet, the conference network, consisted of 400 Ethernet-over-ATM connections and 100 directly attached ATM devices. GraphicsNet was one of the largest ATM backbone networks deployed to date. Using the latest hardware and software available, GraphicsNet provided a switched intern ...

17 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup

October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2

Full text available: pdf(276.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

18 Challenges for nomadic computing: mobility management and wireless communications

Thomas F. La Porta, Krishan K. Sabnani, Richard D. Gitlin

August 1996 **Mobile Networks and Applications**, Volume 1 Issue 1

Full text available: pdf(321.40 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present several challenges and innovative approaches to support nomadic computing. The nomadic computing environment is characterized by mobile users that may be connected to the network via wired or wireless means, many of whom will maintain only intermittent connectivity with the network. Furthermore, those accessing the network via wireless links will contend with limitations of the wireless media. We consider three general techniques for addressing these challenges: (1 ...

19 Adaptive QoS management for IEEE 802.11 future wireless ISPs

Hakima Chaouchi, Anelise Munaretto

July 2004 **Wireless Networks**, Volume 10 Issue 4

Full text available: pdf(299.46 KB) Additional Information: full citation, abstract, references, index terms

Wireless Internet Service Providers (WISPs) are expected to be the new generation of access providers using the emerging IEEE 802.11 technology. Face to the high competition of providing network services, the WISP have to offer the best service to the users. For this purpose, the WISP networks' managers need to provide Quality of Service (QoS) with a minimum cost in their wireless networks. The current link layer IEEE 802.11b provides fair sharing of the radio resource with no service differenti ...

Keywords: IEEE 802.11, ISP business model, QoS framework, policy-based management, traffic differentiation, wireless network

20 Desktop versus web-based network management

Luca Haj Deri

December 1999 **International Journal of Network Management**, Volume 9 Issue 6

Full text available: pdf(305.54 KB) Additional Information: full citation, abstract, references, index terms

This paper introduces a novel management paradigm called desktop-based management that enables management of network resources from a desktop environment. It also covers the design and the implementation of SMB―SNMP, a simple desktop‐based management system that allows people to manage SNMP resources from a desktop environment. Copyright © 1999 John Wiley & Sons, Ltd.

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